

DATE: November 17, 2003

SHEET 1 of 6

## Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Modified) PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

6755.US.D1

SERIAL NO.

10/714,689

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

APPLICANT(S)

Sheng C. Lou, et al.

FILING DATE

November 17, 2003

GROUP

1648

(Use several sheets if necessary)

(37 CFR 1.98 (b))

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	INVENTOR	CLASS	SUB CLASS	FILING DATE
	A1	5612453 A	03/18/1997	Wolf Hans, et al.	<del>          </del>	<del>          </del>	<del>          </del>

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLIC-ATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANS- LATION YES NO
	B1	9014358 A	11/29/1990	PCT			
	B2	034561 A	12/13/1989	EPO			
	B3	19727943	09/24/1998	DE			
	B4	9840744	09/17/1998	PCT Abstract			

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	C1	Niedrig, M. et al., "Characterization of Murine Monoclonal Antibodies Directed Against the core Proteins of Human Immunodeficiency Virus Types 1 and 2," Journal of Virology, 65/8:4529-4533 (1991)
	C2	Minassian, A.A, et al., "Monoclonal Antibodies Against Human Immunodeficiency Virus HIV Type 2 Core Proteins Cross-Reactivity With HIV Type 1 and Simian Immunodeficiency Virus," Proceedings of the national Academy of Sciences of the United States, 6/18:6939-6943 (1988)
	C3	Zolla-Pazner, Susan, et al., "The Implication of Antigenic Diversity for Vaccine Development," Immunology Letters, 66/1-3: 159-164 (1999-03)

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J ↓	A1	4,886,742	12-12-89	Kortright, et al.			
	A2	4,888,290	12-19-89	Kortright, et al.			
	A3	5,173,399	12-22-92	Mehta, et al.			
	A4	5,210,181	05-11-93	Butman, et al.			
	A5	5,514,541	05-07-96	Butman, et al.			
	A6	5,731,189	03-24-98	Zolla-Pazner, et al.			

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLIC- ATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
J ↓	B1	EP 0519866A1	12-23-92	EPO	<del>          </del>	<del>          </del>		
	B2	WO 93/21346	10-28-93	WO				

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

J ↓	C1	Allain, et al., <u>The Lancet</u> , Serological Markers in Early Stages of Human Immunodeficiency Virus Infection in Haemophiliacs, ii:1233-1236 (1986)
	C2	Barin, et al., <u>Science</u> , Virus Envelope Protein of HTLV-III Represents Major Target Antigen for Antibodies in AIDS Patients, 228:1094-1096 (1985)
	C3	Barin, et al., <u>The Lancet</u> , Serological Evidence for Virus Related to Simian T-Lymphotropic Retrovirus III in Residents of West Africa, 2:1387-1389 (1985)
	C4	Bowen, et al., <u>Annals of Internal Medicine</u> , Transmission of Human Immunodeficiency Virus (HIV) by Transplantation: Clinical Aspects and Time Course Analysis of Viral Antigenemia and Antibody Production, Ann. Of Int. Med. 108:46-48 (1988)
	C5	R.H. Burdon and P.H. van Knippenberg, eds. Vol. 15 Elsevier, Amsterdam
	C6	Charneau, et al., <u>Virology</u> , Isolation and Envelope Sequence of a Highly Divergent HIV-1 Isolate: Definition of a New HIV-1 Group, 205:247-253 (1994)
	C7	Clavel, et al., <u>Science</u> , Isolation of a New Human Retrovirus from West Africa Patients with AIDS, 233:343-346 (1986)
	C8	Clavel, et al., <u>Nature</u> , Molecular Cloning and Polymorphism of the Human Immune Deficiency Virus Type 2, 324:691-695 (1986)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)  (37 CFR 1.98 (b))	APPLICANT(S) Sheng C. Lou, et al.	
	FILING DATE November 17, 2003	GROUP 1648

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

2	C9	Coffin, <u>Science</u> , <i>HIV Population Dynamics in Vivo: Implications for Genetic Variation, Pathogenesis and Therapy</i> , 267:483-489 (1995)
	C10	Courouce, et al., <u>La Gazette de la Transfusion</u> N°155-Mars-Avril (1999)
	C11	Dawson, et al., <u>The Journal of Infectious Diseases</u> , <i>Reliable Detection of Individuals Seropositive for the Human Immunodeficiency Virus (HIV) by Competitive Immunoassays Using Escherichia Coli-Expressed HIV Structural Proteins</i> , 157:149-155 (1988)
	C12	Devare, et al., <u>Human Immunodeficiency Virus: Innovative Techniques. Monograph in Virology, Diagnosis and Monitoring of HIV-1 and HIV-2 Infection</u> , J.L. Melnick (ed.) Basel, Karger, vol. 18: 105-121 (1990)
	C13	Euler, et al., <u>Clinical and Experimental Immunology</u> , <i>Precipitable Immune Complexes in Healthy Homosexual Men, Acquired Immune Deficiency Syndrome and the Related Lymphadenopathy Syndrome</i> , 59:267-275 (1985)
	C14	Gao, F., et al., <u>Nature</u> , <i>Origin of HIV-1 in the Chimpanzee Pan Troglodytes Troglodytes</i> , 397:436-441 (1999)
	C15	Gonda, et al., <u>Science</u> , <i>Sequence Homology and Morphologic Similarity of HTLV-III and Visna Virus, a Pathogenic Lentivirus</i> , 277:177-179 (1985)
	C16	Goudsmit, et al., <u>The Lancet</u> , <i>Expression of Human Immunodeficiency Virus Antigen (HIV-Ag) In Serum and Cerebrospinal Fluid During Acute and Chronic Infection</i> , ii:177-180 (1986)
	C17	Griffith, et al., <u>Journal of Clinical Microbiology</u> , <i>Stability of Free and Complexed Human Immunodeficiency Virus Type 1 and Antigen at 4 °C and at Room Temperature</i> , 33:1348-1350 (1995)
	C18	Gupta, et al., <u>New England Journal of Medicine</u> , <i>Correspondence: Circulating Immune Complexes in AIDS</i> , 310:1530-1531 (1984)
	C19	Gurtler, et al., <u>Journal of Virological Methods</u> , <i>Reactivity of Five Anti-HIV-1 Subtype O Specimens with Six Different Anti-HIV Screening ELISAs and Three Immunoblots</i> , 51:177-184 (1995)
	C20	Gurtler, et al., <u>Journal of Virological Methods</u> , <i>Reduction of the Diagnostic Window with a New Combined p24 Antigen and Human Immunodeficiency Virus Antibody Screening Assay</i> , 75:27-38 (1998)
	C21	Gurtler, et al., <u>Journal of Virological Methods</u> , <i>A New Subtype of Human Immunodeficiency Virus Type 1 (MVP-5180) From Cameroon</i> , 68:1581-1585 (1994)
↓	C22	Guyader, et al., <u>Nature</u> , <i>Genome Organization and Transactivation of the Human Immunodeficiency Virus Type 2</i> , 326:662-669 (1987)
	C23	Haesevelde, et al., <u>Journal of Virology</u> , <i>Genomic Cloning and Complete Sequence Analysis of a Highly Divergent African Human Immunodeficiency Virus Isolate</i> , 68:1586-1596 (1994)

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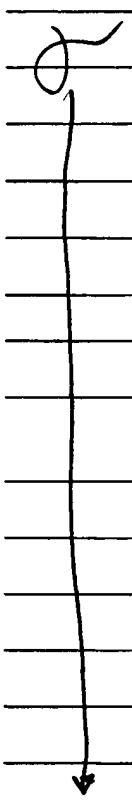
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**OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)**

	C24	Hunt, et al., <u>AIDS Research and Human Retroviruses</u> , <i>Envelope Sequence Variability and Serologic Characterization of HIV Type 1 Group O Isolates from Equatorial Guinea</i> , 13:995-1005 (1997)
	C25	Kageyama, et al., <u>Journal of Virological Methods</u> , <i>An Improved Method for the Detection of HIV Antigen in the Blood of Carriers</i> , 22:125-131 (1988)
	C26	Kanki, et al., <u>Science</u> , <i>New Human T-Lymphotropic Retrovirus Related to Simian T-Lymphotropic Virus Type III (STLV-III<sub>AGM</sub>)</i> , 232:238-243 (1986)
	C27	Kanki, et al., <u>Science</u> , <i>Human T-Lymphotropic Virus Type 4 and the Human Immunodeficiency Virus in West Africa</i> , 236:827-831 (1987)
	C28	Karush, F. In <u>Comprehensive Immunology</u> , ed. R.A. Good, S.B. Day, <i>The Affinity of Antibody: Range, Variability and the Role of Multivalence</i> , 5:85-116 (1978)
	C29	Kenny, et al., <u>The Lancet</u> , <i>HIV Antigen Testing</i> , 1(8532):565-566 (1987)
	C30	Kessler, et al., <u>JAMA</u> , <i>Diagnosis of Human Immunodeficiency Virus Infection in Seronegative Homosexuals Presenting with an Acute Viral Syndrome</i> , 258:1196-1199 (1987)
	C31	Ly, et al., <u>Journal of Clinical Microbiology</u> , <i>Contribution of Combined Detection Assays of P-24 Antigen and Anti-Human Immunodeficiency Virus (HIV) Antibodies in Diagnosis of Primary HIV Infection by Routine Testing</i> , 38(6): 2459-2461 (2000)
	C32	Mariuzza, et al., <u>Rev. Biophys. Chem.</u> , <i>The Structural Basis of Antigen-Antibody Recognition</i> , 16:139-159 (1987)
	C33	Mathiesen, et al., <u>Journal of Virological Methods</u> , <i>Acid Hydrolysis of Serum Samples to Increase Detection of HIV Antigen</i> , 22:143-148 (1988)
	C34	Mauclere, P. <u>AIDS</u> , <i>Serological and Virological Characterization of HIV-1 Group O Infection in Cameroon</i> , 11:445-453 (1997)
	C35	Mellors, et al., <u>Science</u> <i>Prognosis in HIV-1 Infection Predicted by the Quantity of Virus in Plasma</i> , 275:1167-1170 (1996)
	C36	Meyerhans, et al., <u>Cell</u> , <i>Temporal Fluctuations in HIV Quasispecies in Vivo are not Reflected by Sequential HIV Isolations</i> , 58:901-910 (1989)
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	C39	Phair, <u>JAMA</u> , <i>Human Immunodeficiency Virus Antigenemia</i> , 258:p1218 (1987)
	C40	Robertson, et al., <u>Nature</u> , <i>Recombination of HIV-1</i> , 374:124-126 (1995)
	C41	Saag, et al., <u>Nature Medicine</u> , <i>HIV Viral Load Markers in Clinical Practice</i> , 2:625-629 (1996)
	C42	Sarnagadharan, et al., <u>Science</u> , <i>Antibodies Reactive with Human T-Lymphotropic Retroviruses (HTLV-III) in the Serum of Patients with AIDS</i> , 224:506-508 (1984)
	C43	Schochetman, et al., <i>Aids Testing</i> , Springer-Verlag, New York, Berlin, Heidelberg
	C44	Schulz, et al., <u>The Lancet</u> , <i>Envelope Gene-Derived Recombinant Peptide in the Serodiagnosis of Human Immunodeficiency Virus Infection</i> , 2:111-112 (1986)
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	C50	Stute, <u>The Lancet</u> , <i>HIV Antigen In Acute HIV Infection</i> , 1(8532):p566 (1987)
	C51	van Binsbergen, et al., <u>Journal of Virological Methods</u> , <i>Improved Performance of Seroconversion with a 4<sup>th</sup> Generation HIV Antigen/Antibody Assay</i> , 82:77-84 (1999)

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8	C52	von Sydow, et al., <u>British Medical Journal</u> , <i>Antigen Detection in Primary HIV Infection</i> , 296:238-240 (1988)
	C53	Wain-Hobson, <u>Current Topics in Microbiology</u> , <i>Human Immunodeficiency Virus Type 1 Quasispecies in Vivo and Ex Vivo</i> , 176:181-193 (1992)
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16	C57	Zhu, <u>Journal of Virology</u> , <i>Evidence for Coinfection by Multiple Strains of Human Immunodeficiency Virus Type 1 Subtype B in an Acute Seroconverter</i> , 69:1324-1327 (1995)

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